VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

ELATION PROFESSIONAL

Light Efficiency:

12 Lumen/Watt

Light Quality:

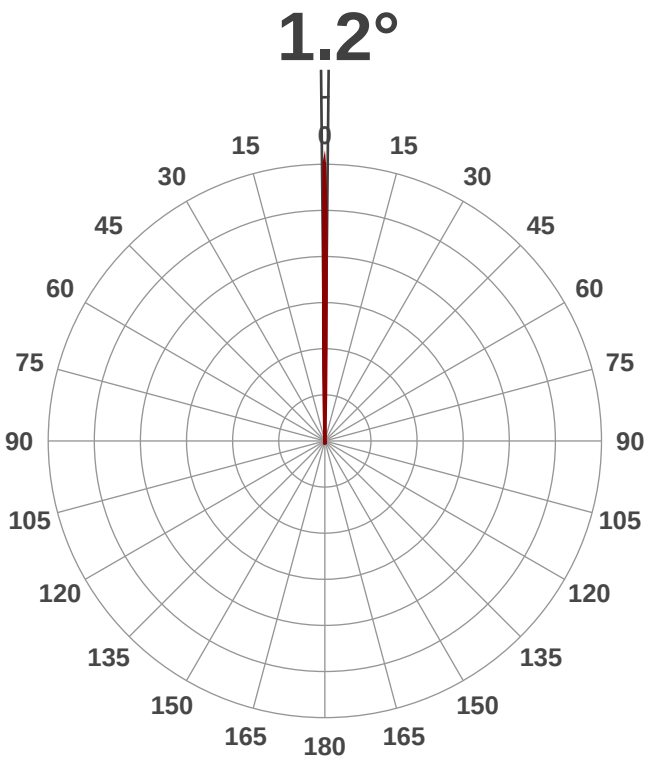
CRI: 0.0

Color Temperature:

0 K

Output: 5251 lm
Peak: 9958575 cd

Power: 444 W
PF: 1.0

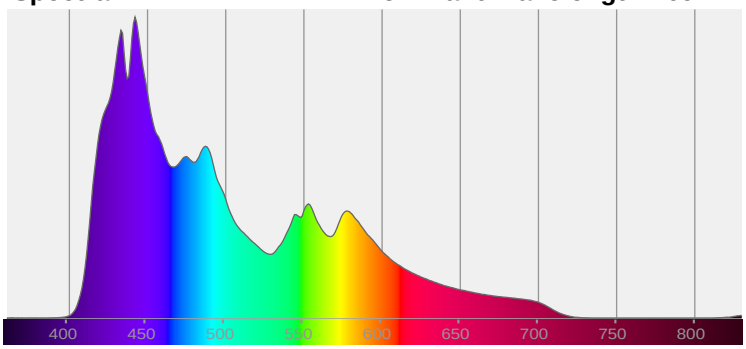


Beam Angle

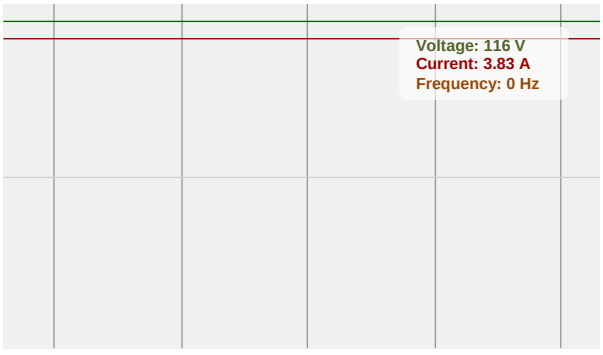
Product Name:
Proteus Beam
Test:
CTB
Date:
1/18/2018
Note:

CIE 1931
x: 0.245
y: 0.229

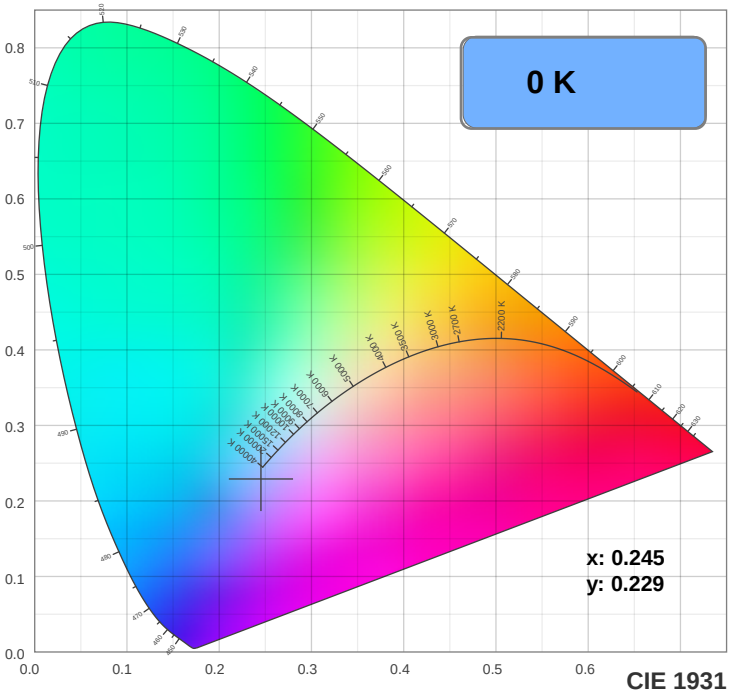
Spectra **Dominant Wavelength:469nm**



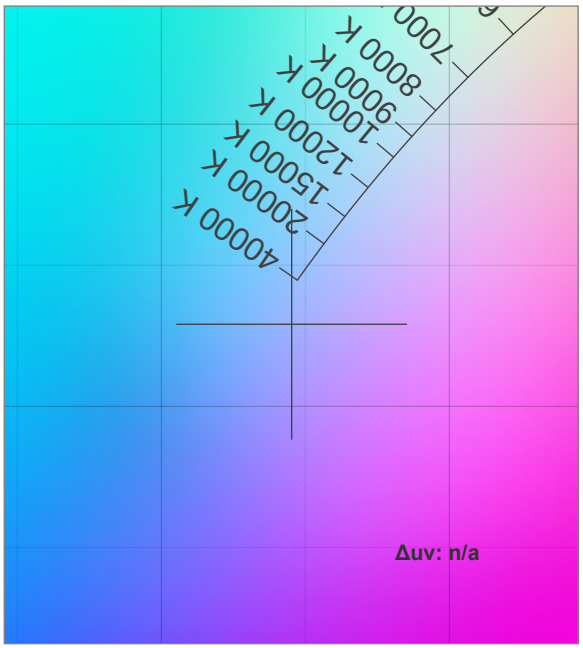
Power



Color Details

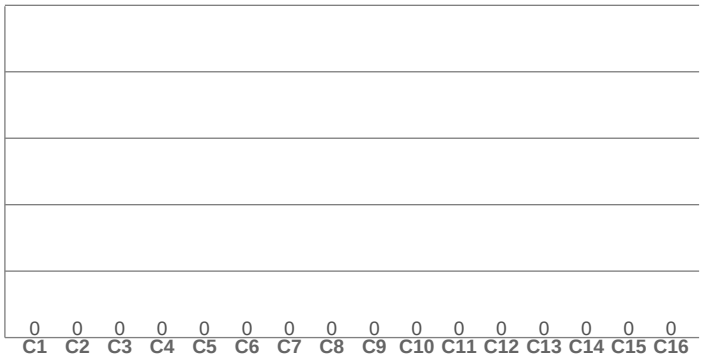


CIE 1931

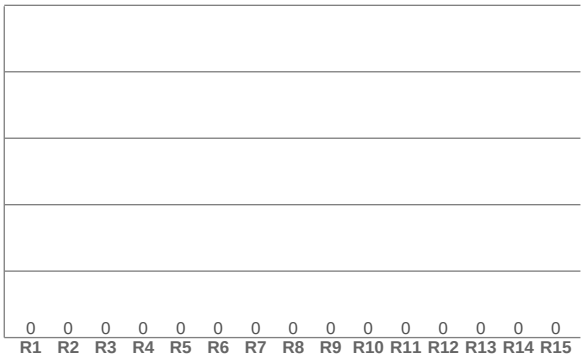


CIE 1931 ZOOM

TM30: 0.0



CRI: 0.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

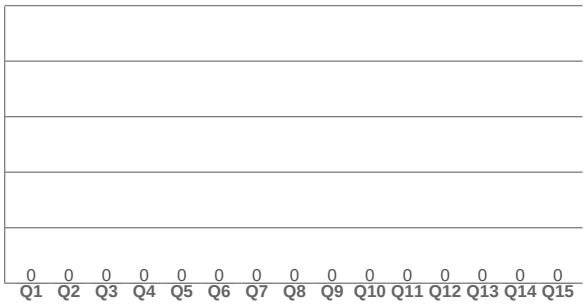
TM30 C Values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q Values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Diviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.245	0.229	0.187	0.261	n/a

TM30 Details

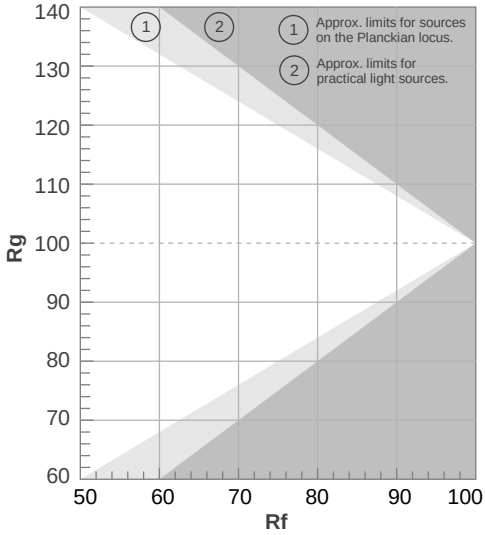
Rf 0.0

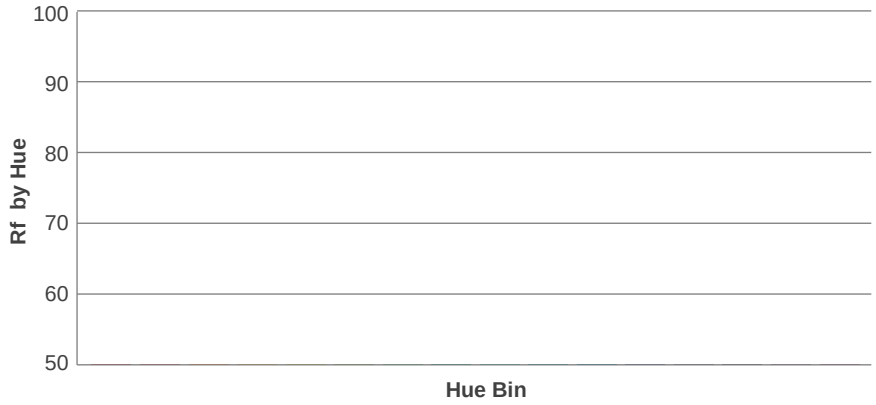
Fidelity Index Rf

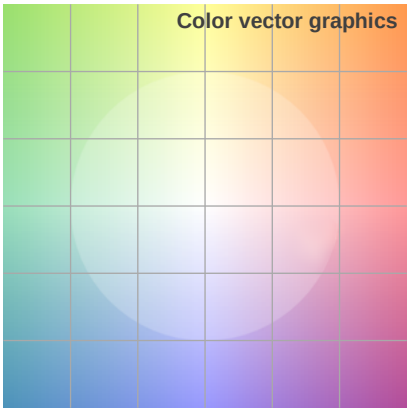
Rg 0.0

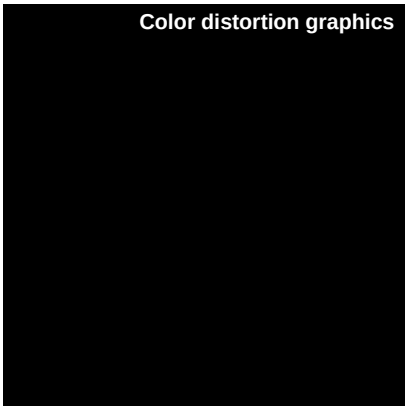
Gammut Index Rg

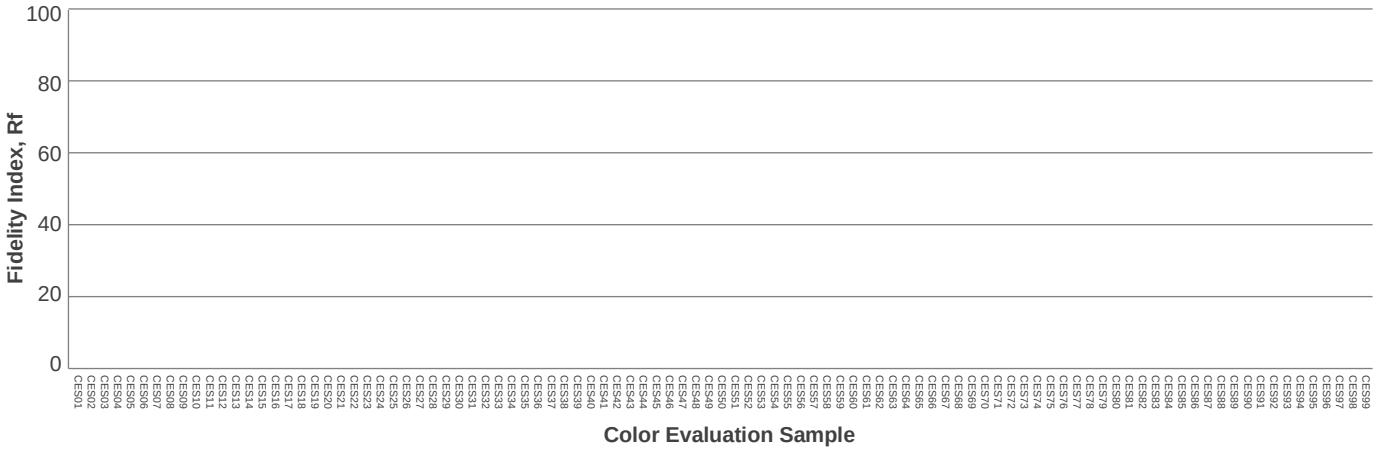
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



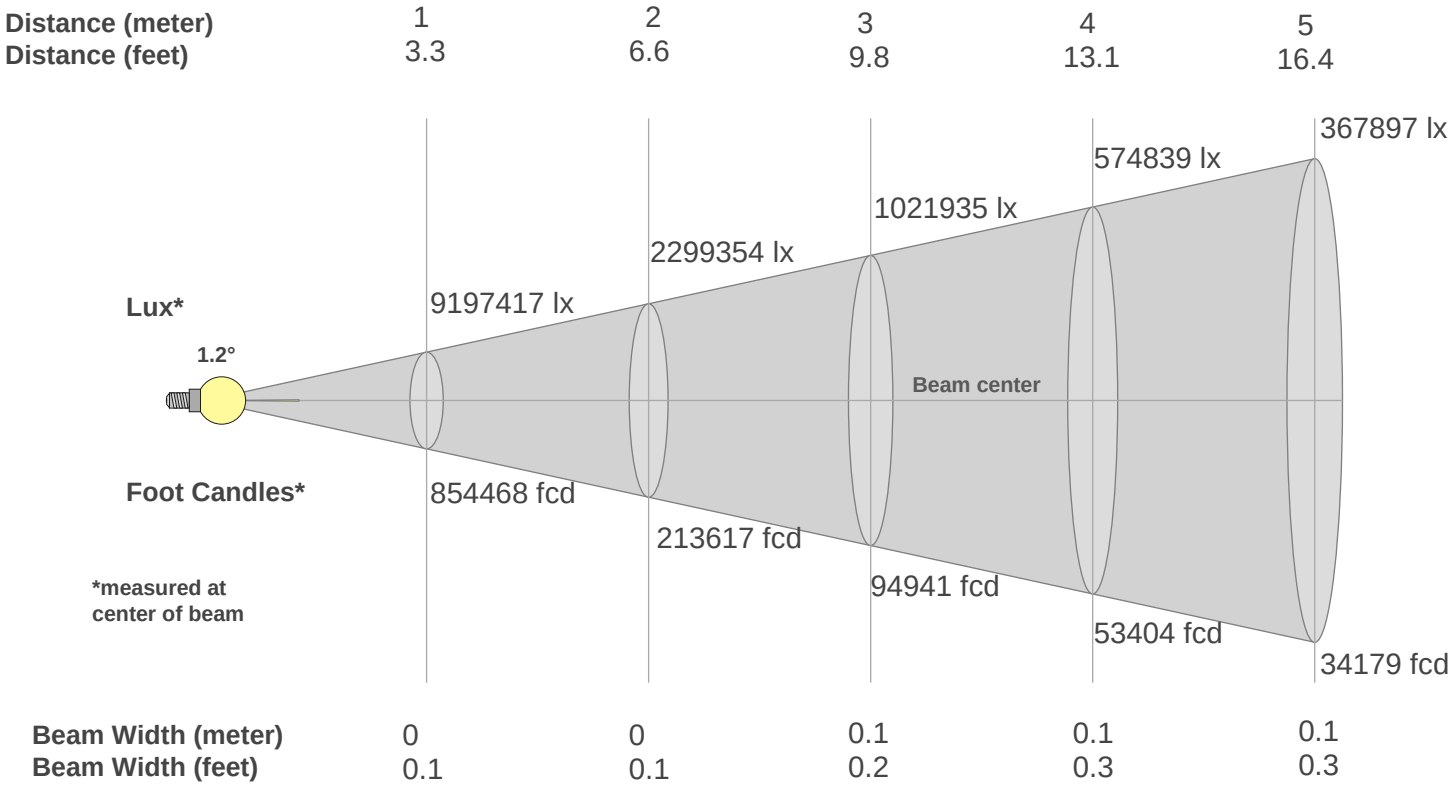








Beam Details



Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
Lx	9197417	2299354	1021935	574839	367897	255484	187702	143710	113548	91974	76012	63871	54423	46926	40877	35927	31825	28387	25478	22994
Fcd	854468	213617	94940.9	53404.2	34178.7	23735.2	17438.1	13351.1	10549	8544.7	7061.7	5933.8	5056	4359.5	3797.6	3337.8	2956.6	2637.2	2366.9	2136.2

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9.2M	2.1M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9.2M	2.1M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	23%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 180° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9.2M	1.9M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

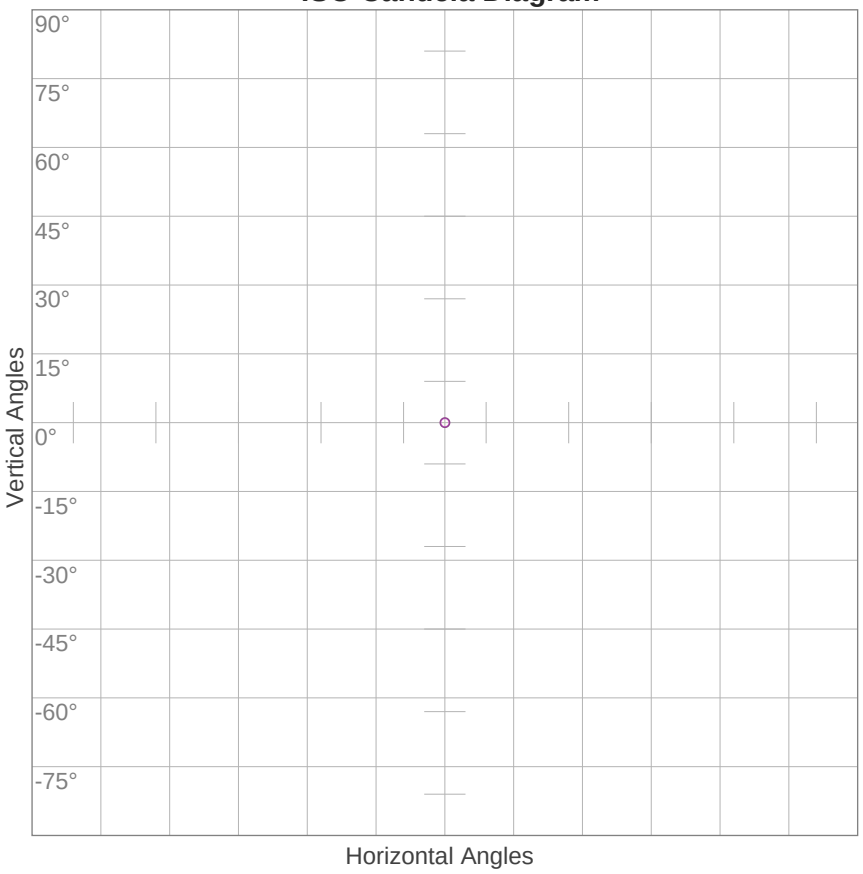
Intensities in 270° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
9.2M	1.9M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
1.2°	2.4°	3°	99.8%	99.8%

ISO Diagrams

ISO Candela Diagram



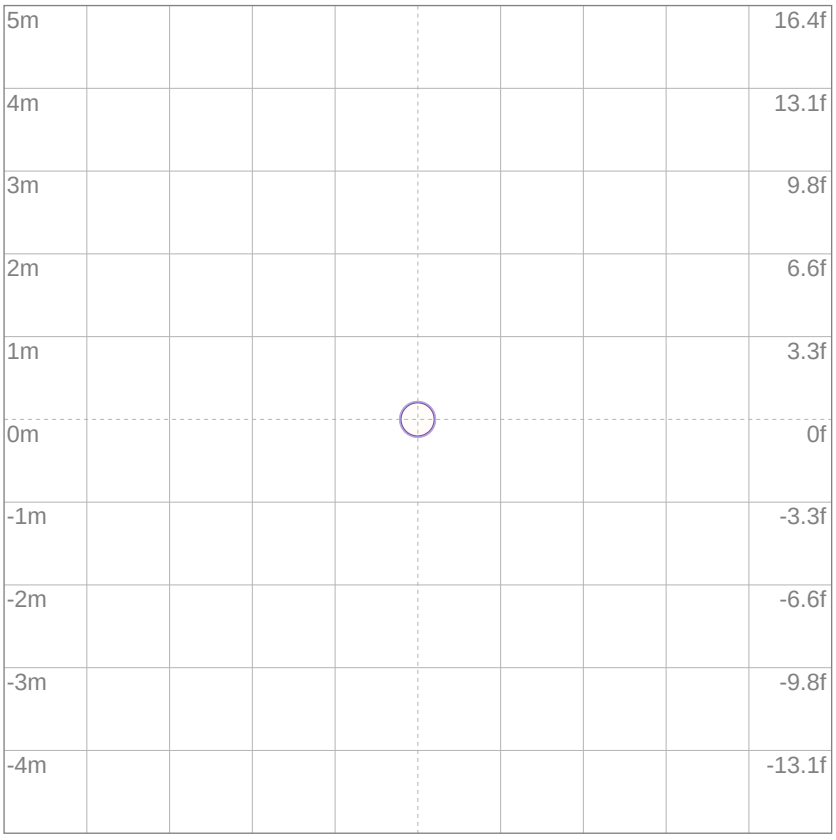
10%	919742 cd
20%	1839483 cd
30%	2759225 cd
40%	3678967 cd
50%	4598708 cd
60%	5518450 cd
70%	6438192 cd
80%	7357933 cd
90%	8277675 cd

Conditions:

Number of c-planes: 2

Candela at center: 9197417 cd

ISO Lux Diagram



3%	2759 lx
5%	4599 lx
10%	9197 lx
30%	27.6K lx
50%	46.0K lx

Conditions:

Number of c-planes: 2

Lux at center: 92.0K lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Light Planning

Coefficients of Utilization

Ceiling Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor Reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)				Room Values are expressed as percentage of Lumens delivered to the task surface													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	117	115	114	113	114	113	112	111	109	108	108	106	105	104	102	102	101	100
2	115	112	110	109	113	111	109	108	108	106	105	105	104	103	102	102	101	100
3	113	110	108	106	111	109	107	105	107	105	104	104	103	102	102	102	101	100
4	112	109	106	105	110	108	106	104	106	104	103	104	103	102	103	101	101	100
5	111	107	105	103	109	107	104	103	105	103	102	104	102	101	103	101	100	100
6	110	106	104	102	109	106	104	102	105	103	102	104	102	101	103	101	100	100
7	109	106	103	102	108	105	103	102	104	102	101	103	102	101	102	101	100	100
8	108	105	103	101	108	105	103	101	104	102	101	103	102	101	102	101	100	100
9	108	104	102	101	107	104	102	101	103	102	101	103	101	100	102	101	100	100
10	107	104	102	101	107	104	102	101	103	102	101	103	101	100	102	101	100	100

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
5236 lm	0.399 lm	0.711 lm	0.698 lm	0.932 lm	0.961 lm	1.34 lm	1.24 lm	1.43 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.02 lm	1.18 lm	1.14 lm	1.16 lm	1.06 lm	0.793 lm	0.576 lm	0.374 lm	0.103 lm